

Kindly amend the claims in accordance with the indicated allowable subject matter in the 10/1/01 Office Action as follows:

Rewrite the content of claims 1,4 and 5, as claim 18 to reflect the fact that the specified intersection is to be between a computer mouse and mouse pad and that the specified frictional force is to be a drag type force component resulting from added weight.

Direct amendment of claim 1 does not appear possible.

Since direct amendment of claim 1 does not appear possible a clean copy of claim 18 is to be as follows,

- 1 18. In a manually guided pointing operation in a display interface between a user and
- 2 a computer,
- 3 the improvement for position control comprising in combination:
- 4 a structural intersection between a curved member on a manually moveable
- 5 computer mouse and a mouse pad stationary surface,
- 6 said curved member having a peripheral surface in tangential contact with said
- 7 stationary surface,
- 8 said curved member further having associated signal generating circuitry operable
- 9 to move a cursor in said display in response to relative motion of said curved
- 10 member with respect to said stationary surface at said intersection, and,
- 11 providing a drag type frictional force component in the plane of said tangential
- 12 contact in said intersection resulting from the addition of a 20 - 50 %

13 increase in weight of said computer mouse.

Claim ~~6~~ Amendment instructions.

Adjust the dependency of Claim 6 on line 1 thereof by changing "5" to -18 -.

A clean copy of claim 6 as amended is:

1 6. The improvement of Claim 18 wherein said 20 - 50% weight increase is in the
2 range of 20 - 50 grams.

Claims 7 and 8 need no amending and read as follows:

1 ~~3~~ 7. The improvement of Claim ~~6~~ wherein said 20 -50% weight increase is in the
2 form of a locallized group of metal particles positioned within a housing of said
3 mouse.

1 ~~4~~ 8. The improvement of Claim ~~7~~ wherein said 20 - 50% weight increase is in the
2 form of a weight member affixed to a housing of said mouse.

Claim ~~9~~ amendment instructions

Amend claim 9 to adjust dependency and to include the drag type frictional force terminology as follows.

Claim 9 line 1 change "4" to -18- , and, erase "addition of a" and in lieu thereof
insert - drag type-.

A clean copy of claim 9 as amended is as follows:

Sub
B2 D3

- 1 9. ~~The position control improvement of claim 18 wherein said drag type frictional~~
- 2 ~~force component is the result of the addition of a combination of a magnetic member~~
- 3 ~~positioned on the surface of said computer mouse that is adjacent to said computer~~
- 4 ~~mouse pad and a ferromagnetic sheet positioned in said mouse pad.~~

Claim 10 Amendment instructions

Amend claim 10 to adjust dependency and to include the drag type frictional force terminology as follows.

Claim 10 line 1 change "4" to -18-, and, erase "addition of a" and in lieu thereof insert - drag type-.

A clean copy of claim 10 as amended is as follows:

Sub
B3 D4

- 1 10. ~~The improvement of claim 18 wherein said drag type frictional force~~
- 2 ~~component is the result of the addition of an increase in coefficient of friction~~
- 3 ~~of protrusions on the surface of said computer mouse that are adjacent to said~~
- 4 ~~computer mouse pad at the surface of said computer mouse pad.~~

Claim 11 Amendment instructions

Amend claim 11 to adjust dependency and to include the drag type frictional force terminology as follows.

Claim 11 line 1 change "4" to -18-, and, erase "addition of a" and in lieu thereof
insert - drag type-.

A clean copy of claim 11 as amended is as follows:

- Sub
B4
- 1 11. ~~The improvement of claim 18 wherein said drag type frictional force~~
 - 2 component is a result of at least one addition taken from the group of the addition of
 - 3 an about 20 - 50% increase to the weight of said computer mouse, the addition of a
 - 4 combination of a magnetic member positioned on the surface of said computer
 - 5 mouse that is adjacent to said computer mouse pad and a ferromagnetic sheet
 - 6 positioned in said mouse pad, and an addition of an increase in coefficient of friction
 - 7 between protrusions on the surface of said computer mouse that is adjacent to said
 - 8 ~~computer mouse pad at the surface of said computer mouse pad.~~

Claim 13 amendment instructions

Rewrite the content of claims 12 and 13, as independent claim 19 to reflect the fact that
the specified frictional force is to be a drag type force component opposing mouse
movement.

A clean copy of independent claim 19 as amended is as follows:

- B5
cont
- 1 19. In a computer control interface involving a display and a manually guided
 - 2 mouse on a mouse pad,

3 the improvement for position control comprising in combination:
 4 a sphere member in said mouse rotatably contacting said mouse pad,
 5 said sphere member having associated signal generating circuitry operable
 6 to move a cursor in said display in response to mouse movement measured
 7 by rotation of said sphere member with respect to said mouse pad, and,
 8 a frictional force component addition in the plane of said mouse pad opposing said
 9 mouse movement, wherein, said frictional force component addition further
 10 is a result of at least one addition taken from the group of;
 11 the addition of incremental weights totaling about 20 - 50 % of the weight
 12 of said mouse,
 13 the addition of a combination of a magnetic member positioned on the
 14 surface of said mouse that is adjacent to said mouse pad,
 15 the addition of a ferromagnetic sheet positioned in said mouse
 16 pad, and,
 17 the addition of an increase in coefficient of friction between protrusions
 18 on the surface of said mouse that are adjacent to said mouse pad.

B5
 Concluded

Claim 14 amendment instructions

Amend claim 14 to adjust dependency and to include metal particles in the housing
 as the weight addition; follows.

Claim 14 line 1 change "12" to -19- .

line 3 after "increase" insert - of said mouse in turn -.

line 4 at "mouse.." erase- the last one of the two periods ~.

A clean copy of claim 14 as amended is as follows:

- B6 Sub D7
- 1 14. ~~The improvement of claim 19 wherein said frictional force component is the~~
 - 2 ~~result of the addition of an about 20 - 50 % in weight increase of said mouse and~~
 - 3 ~~said weight increase of said mouse in turn is produced by about 20 - 50 grams of~~
 - 4 ~~metal particles in the housing of said mouse.~~

Claim 15 amendment instructions

Amend claim 15 to adjust dependency as follows.

Claim 15 line 1 change "12" to -14- .

A clean copy of claim 15 as amended is as follows.

- B7 Sub D8
- 1 15. ~~The improvement of claim 14 wherein said frictional force component is the~~
 - 2 ~~result of the addition of about 20 - 50 % in the weight of said mouse, and said~~
 - 3 ~~weight increase is produced by affixing to the top of the housing of said mouse an~~
 - 4 ~~element comprising one or more cloth or plastic covered metal discs totaling about~~
 - 5 ~~20 - 50 grams in weight.~~

Amend claim 16 to adjust dependency as follows.

Claim 16 line 1 change "12" to -14- .

A clean copy of claim 16 as amended is as follows.

Sub
88 D9

- 1 16. The improvement of claim 14 wherein said frictional force component is the
2 result of the addition of a combination of a magnetic member positioned on the
3 surface of said mouse that is adjacent to said mouse pad and a ferromagnetic sheet
4 positioned in said mouse pad

Claim 17 needs no amendment and reads as follows:

- 1 The improvement of claim 16 wherein said magnetic member is adjustably
2 positioned and said mouse is positioned on rollers away from said mouse pad.

Respectfully submitted,

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